

REMARKS

Reconsideration and allowance are respectfully requested in light of the above amendments and the following remarks.

Claims 1-10 have been canceled in favor of new claims 11-21. It is noted that support for the features recited in claims 11-21 is provided at least in the original claims and the specification on page 9, line 24, through page 10, line 9, page 12, line 24, through page 13, line 15, and page 19, line 22, through page 20, line 12.

Claims 1-10 were rejected, under 35 USC §102(e), as being anticipated by Tanaka et al. (US 6,347,220). To the extent these rejections may be deemed applicable to new claims 11-21, the Applicant respectfully traverses.

New claim 11 recites:

A base station apparatus comprising:
a calculator that calculates a receiving weight, for reception of a RACH signal, prior to reception of a preamble section of the RACH signal;
a receiver that receives the preamble section, by an adaptive array antenna, in a plurality of receiving directivity patterns set, using the receiving weight, prior to the reception of the preamble section;
a preparer that prepares a delay profile of the preamble section per receiving directivity pattern;
a correlation level detector that detects a correlation level per receiving directivity pattern using the corresponding delay profile; and
a preamble detector that detects the preamble section using the detected correlation levels.

The Applicant respectfully submits that Tanaka fails to disclose the features recited in claim 11 of: (1) calculating an adaptive antenna receiving weight prior to receiving a preamble section of a RACH signal and (2) receiving the RACH signal preamble using the calculated weight.

Instead, Tanaka discloses in Fig. 1 a wireless base station 11 having a controller CNT for detecting the presence of an uplink reception signal (Tanaka col. 6, lines 23-25). If an uplink reception signal is present, the controller establishes a downlink transmission beam having the same direction as that for the uplink reception signal (col. 6, lines 25-28). If an uplink reception signal does not appear within a fixed period of time, the controller does not establish the formation of a downlink beam (col. 6, lines 28-31).

The Applicants respectfully submits that Tanaka does not disclose: (1) calculating an adaptive antenna receiving weight prior to receiving a preamble section of a RACH signal and (2) receiving the RACH signal preamble using the calculated weight. More specifically, Tanaka does not disclose a random access channel (RACH) signal or a preamble of such a signal. As a result, it necessarily follows that Tanaka cannot disclose the cooperative sequence of functional operations among the claimed features, such as calculating an adaptive antenna weight for

receiving the preamble of a RACH signal prior to receiving this signal.

As disclosed by Applicant in the present specification, in the related art, there are base stations which receive the preamble of a RACH signal without applying antenna beam directivity to this signal (see specification page 3, lines 23-35). The evidentiary record does not support a conclusion that Tanaka's base station operates differently from such related art base stations.

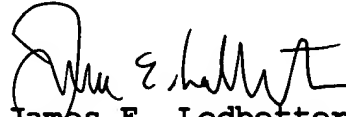
Accordingly, the Applicant respectfully submits that Tanaka does not anticipate the subject matter defined by claim 11. Independent claim 21 similarly recites the above-described features distinguishing apparatus claim 11 from Tanaka, although with respect to a method. Therefore, claim 21 is allowable for similar reasons that claim 11 is allowable. It is submitted that allowance of claims 11 and 21 and all claims dependent therefrom is warranted.

Dependent claim 12 recites that the receiving weight applied for receiving the RACH signal preamble is based on the direction of arrival of a dedicated physical channel. Tanaka also does not disclose this feature. Therefore, allowance of claim 12 and its dependent claim 13 is warranted for this independent reason.

In view of the above, it is submitted that this application is in condition for allowance and a notice to that effect is respectfully solicited.

If any issues remain which may best be resolved through a telephone communication, the Examiner is requested to telephone the undersigned at the local Washington, D.C. telephone number listed below.

Respectfully submitted,



James E. Ledbetter
Registration No. 28,732

Date: September 15, 2005
JEL/DWW/att

Attorney Docket No. L9289.01177
STEVENS DAVIS, MILLER & MOSHER, L.L.P.
1615 L Street, N.W., Suite 850
P.O. Box 34387
Washington, D.C. 20043-4387
Telephone: (202) 785-0100
Facsimile: (202) 408-5200